

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/014556

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07F9/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 4 407 761 A (BLUM ET AL) 4 October 1983 (1983-10-04) column 3, line 8 - line 18; example 2 | 1-4 |
| X | DE 27 02 631 A1 (HENKEL KGAA) 27 July 1978 (1978-07-27) examples 1,2 | 1-4 |
| X | DE 26 58 961 A1 (JOH. A. BENCKISER GMBH; JOH. A. BENCKISER GMBH, 6700 LUDWIGSHAFEN; JOH.) 29 June 1978 (1978-06-29) example 1 | 1-4 |
| A | IT 1 230 503 B (ISTITUTO GENTILI S.P.A) 25 October 1991 (1991-10-25) cited in the application example 2 | 1-4 |
| | ----- -/- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the International search

11 May 2005

Date of mailing of the international search report

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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| A | WIDLER L ET AL: "HIGHLY POTENT GEMINAL BIPHOSPHONATES. FROM PAMIDRONATE DISODIUM (AREDIA) TO ZOLEDRONIC ACID (ZOMETA)" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 45, no. 17, 15 August 2002 (2002-08-15), pages 3721-3738, XP001164243 ISSN: 0022-2623 | 1-4 |
| X | Scheme 1, example 1k | 5-8 |
| A | KIECZYKOWSKI ET AL: "Preparation of (4-Amino-1-Hydroxybutylidene)bisphosphonic Acid Sodium Sal, MK-217 (Alendronate Sodium). An Improved Procedure for the Preparation of 1-Hydroxy-1,1-bisphosphonic Acids" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 60, 1995, pages 8310-8312, XP002310243 ISSN: 0022-3263 Experimental section | 1-4 |
| A | EP 0 252 504 A (BOEHRINGER MANNHEIM GMBH) 13 January 1988 (1988-01-13) | 1-4 |
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Information on patent family members

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